

### AMENDMENTS TO THE SPECIFICATION

Please make the following amendments to the Specification.

Replace paragraph 0086 with the following paragraph:

The present invention discloses 3815 novel viral genes of the VGAM group of genes, which have been detected bioinformatically, as described hereinbelow with reference to Tables 1 and 2 for VGAM1483. Laboratory confirmation of 4 genes of the GAM group of genes is described hereinbelow with reference to Figs. 12 through 14.

Replace paragraph 0134 with the following paragraph:

The present invention discloses 90656 novel viral genes of the GR group of genes, which have been detected bioinformatically, as described hereinbelow with reference to Tables 1 and 2 for VGAM1483. Laboratory confirmation of 3 genes of the GR group of genes is described hereinbelow with reference to Figs. 9A through 14.

Replace paragraph 0137 with the following paragraph:

The present invention discloses a first plurality of novel genes referred to here as VGAM genes, and a second plurality of operon-like genes referred to here as GR genes, each of the GR genes encoding a plurality of VGAM genes. The present invention further discloses a very large number of known target-genes, which are bound by, and the expression of which is modulated by each of the novel genes of the present invention. Published scientific data referenced by the present invention provides specific, substantial, and credible evidence that the abovementioned target genes modulated by novel genes of the present invention, are associated with various diseases. Specific novel genes of the present invention, target genes thereof and diseases associated therewith, are described hereinbelow with reference to Tables 1 and 2 for VGAM1483. It is therefore appreciated that a function of VGAM genes and GR genes of the present invention is modulation of expression of target genes related to known diseases, and that therefore utilities of novel genes of the present invention include diagnosis and treatment of the abovementioned diseases. Fig. 10 describes various types of diagnostic and therapeutic utilities of novel genes of the present invention.

Delete paragraphs 0161-20715.

Following paragraph 20728, add the following table.

Table 1

GENE -SEQUENCE	P- SEQID	GENE -SEQ ID	G- SEQ	FOLDED PRECURSOR
=====	=====	=====		
GAM				
1483	37404	TGACA	37405	-- AG - A AACAC
AGTCTGATCG	AGCCT		TGA	CCTG TC TG TCC
GACGAGAGCG	AACAC			
GOTTTCGTGC	TGAAC		ATT	GCAT AG AC GGG
TGTTTTTCAT	TTCA		AC	GA T - GCT--
CGAGCTTTTA				
CAGACCATGA				
CAAGCCTGAC				
GAGAGCGTTC				
ATCGGGGCAI				
GAAGTACGCA				
TTACAC				

Following paragraph 20729, add the following table.

Table 2

GENE	TARGET	UTR	SEQUENCE	SEQID	BINDING-SITE
GAM1483	C7	3'	TGATAGGCCTGAATGGAGCATT CA	37406	CAA CGA TGA GCCTGA GAGCGTTCA                 ACT CGGACT CTCGTAAGT
GAM1483	DUSP5	3'	TGCAAGCCTGGTGACCACTCA	37407	ATC TAC A ACGA G TG CAAGCCTG GA CGTTCA                   AC GTTCGGAC CT GTGAGT
GAM1483	ATP6V1F	3'	TGGCAAGCCTGGGGGAGAG	37408	- CA_ G AC TG CAAGCCTG GAGAG                AC GTTCGGAC CTCTC C CC
GAM1483	DKF2P564C103	3'	TGATGGCCTGACGCTCTCTTCA	37409	CAA AGAGCG TGA GCCTGACG TTCA                 ACT CGGACTCG AAGT
GAM1483	KIAA0561	5'	GATGAGCTTGACGAGAGGGT	37410	AC_ GAGAG_ C CA C C GA AGC TGACGAGAG GT                       CT TCG ACTGCTCTC CA AC A C
GAM1483	KIAA0935	3'	TGGCAAGCCTGGCAGGGC	37411	A A G A TG CAAGCCTG C AG GC 

GAM1483	MIC2L1	3'	GACAAGCCTGACAAAGTTCA	37412	AC GTTCGGAC G TC CG C C _ C AGC GACAAGCCTGACGAG GTTCA                   CTGTCGGACTGTTT CAAGT
GAM1483	PPP4R1L	5'	TGACAAGTCTGATGAAGAGCG	37413	C C _ TGACAAG CTGA GAGAGCG                   ACTGTTC GACT TTCTCGC A AC TGACG GC_
GAM1483	ZAK	3'	TGACAAGCCAGATCAGTTC	37414	TGACAAGCC AGA GTTC                   ACTGTTCGG TCT CAAG AGT
GAM1483	LOC149566	3'	TGACAAGTTGGGTGAACGTT	37415	CC AC GA TGACAAG TG GAGCGTT                ACTGTTC AC CTTGCAA
GAM1483	LOC150368	3'	TGGCAAGCCTGTGACAGTCTC	37416	A A_ CCA_ G CG TG CAAGCCTG GA AG TTC                   AC GTTCGGAC CT TC GAG C A_ G A_
GAM1483	LOC255718	5'	TGACAGGCCTGAGGGTCC	37417	A CGAGA C TGACA GCCTGA G GTTC                   ACTGT CGGACT C CAGG C _ C

Delete paragraphs 20730-57115 and 57131-81271.

Delete the 9720 page-long tabular section at the end of the specification.

Delete Tables 1 and 2, which were submitted on compact disc.